Index of Claims

| Appl | icati | on/C | Conti | l lor | ٧o. |
|------|-------|------|-------|-------|-----|
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10/662,442

Examiner

Vicky A. Johnson

Applicant(s)/Patent under Reexamination

OCHIAI ET AL. Art Unit

3682

| √ | Rejected |
|---|----------|
| = | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| 2 | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla                  | im       |               |  |  |  | Date   | е                   |                     |           |   |       | Cla   | im       |                    |               |          | Da      | ate          |  |            |          | С  | laim     |              |          |              |              | ate      | •        |               |              |          |
|----------------------|----------|---------------|--|--|--|--|---------------------|---------------------|-----------|---|-------|-------|----------|--------------------|---------------|----------|---------|--------------|--|------------|----------|--|----------|--------------|----------|--------------|--------------|----------|----------|---------------|--------------|----------|
|                      |          |               |  |  | Π  | Γ  |                     |                     |           |   |       |       | -        |                    |               |          |         |              | T                                      | П          |          |  | _        |              |          |              |              |          |          |               |              |          |
| Final                | Original | 6/23/05       | i  |  |  |  |                     |                     |           |   |       | Final | Original | i                  |               |          |         |              |  |            |          | Final  | Original |              | 1        |              |              |          |          |               |              |          |
| 造                    | Orig     | 122           |  |  | İ  |  |                     |                     |           |   |       | 🖫     | Ę        |                    |               |          |         |              |  |            |          | ιĒ   | ≒        |              |          |              |              |          |          |               |              |          |
|                      | U        |               | L  |  |  | L  |                     | Ш                   |           |   |       |       |          |                    |               |          | $\perp$ |              |  | Ш          |          | <u>L</u>   | J        |              | Ш        | _            | _            | _        | _        |               | 4            |          |
|                      | 1        | 4             | L  |  |  |  |                     | Ш                   |           |   |       |       | 51       |                    |               |          | $\perp$ | 4            | _                                      | Щ          |          | <u></u>  | 101      | _            |          | _            | _            |          | _        |               | 4            | _        |
|                      | 2        | Ц             | <u> </u>   | _  | L  |  |                     |                     |           |   |       |       | 52       |                    | $\rightarrow$ | _        | $\perp$ | $\perp$      | ┷                                      | Ш          | _        | L  | 102      |              |          | _            |              | _        |          | _             | 4            | _        |
|                      | 3        | Ц             |  | <u>L</u>   | _  |  |                     | Ш                   |           |   |       |       | 53       |                    |               | _        | 4       | _            | _                                      | $\sqcup$   |          |  | 103      | _            | $\vdash$ | _            | _            | _        |          | $\dashv$      | 4            | _        |
| $\Box$               | 4        | Щ             | _  | <u> </u>   | <u>_</u>   |  |                     |                     | _         |   |       |       | 54       |                    | -             | _        | _       | 4-           | ┿                                      | $\sqcup$   | :::      | <u> </u>   | 104      | $oxed{oxed}$ | $\vdash$ |              |              | _        | _{       | $\rightarrow$ | $\dashv$     |          |
|                      | 5        | 1             | <u> </u>   | <u> </u>   | ┡  | L  |                     | $\vdash$            | _         |   |       |       | 55       | Ш                  | _             | _        | +       | +            | ┿                                      | $\sqcup$   |          |  | 105      | _            | $\vdash$ | 4            |              |          |          | $\dashv$      | $\dashv$     | $\dashv$ |
|                      | 6        | 4             | <u> </u>   | <u> </u>   | ļ  |  | Ш                   |                     |           | _ |       |       | 56       | _                  | -             | _        | -       | +-           | +-                                     | $\vdash$   |          | ļ  | 106      | <u> </u>     | $\vdash$ |              |              |          |          | -             | -            | -        |
|                      | 7        | #             | ├-   | ⊢  | ├  | _  | H                   | Н                   |           |   |       |       | 57       | Н                  | -             |          | +       | ╀            | ╂                                      |            |          | <u> </u>   | 107      | $\vdash$     | ⊢⊹       | -            |              |          |          | _             | 4            | $\dashv$ |
|                      | 8        | 4             | <u> </u>   | <u> </u>   | ├—   | -  | -                   | Н                   |           |   |       |       | 58       | $\vdash$           | -             | +        | +       | +            | ╀                                      | $\vdash$   | :::      | <u> </u>   | 108      | H            |          | $\dashv$     | -            |          |          | $\dashv$      | +            | $\dashv$ |
|                      | 9<br>10  | ₩             | ⊢  | ⊢  | ├  | <u> </u>   | Н                   | $\vdash$            |           |   |       |       | 59<br>60 | $\vdash$           | -             | +        | +       | +            | -                                      | $\vdash$   | -        |  | 110      | Н            | $\vdash$ | $\dashv$     | -            | $\dashv$ | $\dashv$ | $\dashv$      | -            | ᅱ        |
| $\vdash$             | 11       | ₩             | -  | -  |  | <u> </u>   | Н                   | Н                   | -         |   |       |       | 61       | Н                  |               | +        | +       | +            | +                                      | ╂─┤        | -        |  | 111      | H            | +        | $\dashv$     |              | -        |          | $\dashv$      | $\dashv$     | ᅱ        |
| $\vdash$             | 12       | H             | -  |  | ├  | <del> </del>                                     | H                   | $\vdash$            |           |   |       |       | 62       | Н                  | $\dashv$      | +        | +       | +            | +                                      | ╁═┧        |          | <del> </del>                                     | 112      | Н            | $\vdash$ | $\dashv$     |              | -        |          | $\dashv$      | $\dashv$     | $\dashv$ |
| $\vdash\vdash\vdash$ | 13       | ${\mathbb H}$ | $\vdash$   | <del> </del>                                     | <del>                                     </del> | $\vdash$   | $\vdash$            | $\vdash \vdash$     | H         |   |       | _     | 63       | $\vdash$           | $\dashv$      | -+       | +       | +            | +                                      | $\vdash$   |          | $\vdash$   | 113      | $\vdash$     | $\vdash$ | $\dashv$     | +            | $\dashv$ |          | +             | +            | $\dashv$ |
| $\vdash\vdash\vdash$ | 14       | +             | $\vdash$   | $\vdash$   | $\vdash$   | <del>                                     </del> | $\vdash$            | $\vdash \vdash$     | $\vdash$  |   |       |       | 64       | $\left  - \right $ | -             | +        | +-      | +-           | ╫                                      | H          | $\dashv$ |  | 114      | $\vdash$     | $\vdash$ | $\dashv$     | $\dashv$     | $\dashv$ | $\dashv$ | +             | +            | ㅓ        |
| $\vdash\vdash\vdash$ | 15       | ╫             | -  | -  | $\vdash$   |  | Н                   | $\vdash$            | Н         |   |       | -     | 65       |                    |               |          | ╅       | +-           | +-                                     | $\Box$     |          | _  | 115      | $\vdash$     | $\dashv$ | $\dashv$     | -            | $\dashv$ | -        | +             | $\dashv$     | $\dashv$ |
| $\vdash\vdash\vdash$ | 16       | +             |  | -  | ├  |  | $\vdash$            | Н                   |           |   |       |       | 66       | $\vdash \vdash$    | +             | $\dashv$ | ┿       | ╅            | +                                      |            |          | $\vdash$   | 116      | $\vdash$     | -        | $\dashv$     |              | -        |          | +             | $\dashv$     | $\dashv$ |
| $\vdash$             | 17       | H             |  | ┢  | ╁  |  | Н                   | $\vdash$            | $\vdash$  |   |       |       | 67       | $\vdash$           | +             | +        | +       | +-           | +                                      | $\vdash$   |          | $\vdash$   | 117      | H            | -        | +            | ᅱ            | -        | ᅱ        | +             | $\dashv$     | $\dashv$ |
|                      | 18       | Н             | $\vdash$   |  | ╁  |  | Н                   | Н                   |           |   |       |       | 68       |                    |               | +        | +       | ╁            | +                                      | $\vdash$   |          | <del>                                     </del> | 118      |              | $\vdash$ | $\dashv$     | -            | $\neg$   |          | $\dashv$      | -            | $\dashv$ |
| $\vdash$             | 19       | H             | $\vdash$   | $\vdash$   | $\vdash$   | -  | Н                   | Н                   | $\vdash$  |   |       |       | 69       | $\vdash$           | $\dashv$      | 一        | +       | +-           | +                                      | $\vdash$   | $\dashv$ |  | 119      | $\vdash$     | $\vdash$ | +            | -            | $\dashv$ | $\dashv$ | +             | $\dashv$     | ᅥ        |
| $\vdash$             | 20       | 7             | -  | -  | $\vdash$   | -  | Н                   | Н                   | -         |   |       |       | 70       | H                  | -             |          | +       | +            | +                                      |            | $\dashv$ |  | 120      |              | -        | _            | 一            |          |          |               | $\dashv$     | ᅱ        |
| $\vdash$             | 21       | <u>'</u>      |  | H  | ┢  |  | H                   | H                   |           |   |       |       | 71       | Н                  | $\dashv$      | $\dashv$ | +       | +            | +-                                     | H          |          | <del> </del>                                     | 121      | Н            | -+       | $\dashv$     | _            | $\neg$   | $\dashv$ | -             | -            | ᅱ        |
|                      | 22       |               |  | <del>                                     </del> |  |  | Н                   |                     |           |   |       |       | 72       | $\vdash$           | -             | $\dashv$ | +       | +            | 1                                      | +          |          | $\vdash$   | 122      |              |          | $\dashv$     | $\dashv$     | ┪        | $\dashv$ | $\dashv$      | $\dashv$     | ᅥ        |
|                      | 23       |               | -  | $\vdash$   |  |  | $\vdash$            | Н                   | -         | _ |       |       | 73       | Н                  | $\dashv$      | -        |         | +            | +                                      |            |          | -  | 123      |              | $\vdash$ | +            |              | $\dashv$ | $\dashv$ | $\dashv$      | +            | ᅱ        |
| $\vdash$             | 24       |               | -  | $\vdash$   | H  | _  | _                   | $\vdash$            | -         |   |       |       | 74       |                    |               | $\dashv$ | +       | +-           | 1                                      | 1          | $\dashv$ |  | 124      | Н            | _        | 十            | _            | $\dashv$ | $\neg$   | 十             | $\top$       | ᅥ        |
| H                    | 25       |               | -  | <del> </del>                                     |  |  |                     |                     | _         | _ |       |       | 75       | H                  | -             | _        | +       | $\top$       | 1                                      |            | $\dashv$ |  | 125      |              | $\vdash$ | _            |              | _        | 7        | 十             | $\dashv$     | ᅱ        |
|                      | 26       | _             | -  | -  |  |  |                     |                     |           |   |       |       | 76       | Н                  |               |          | _       | ╅            | +                                      | $\Box$     |          |  | 126      |              | $\vdash$ | 7            | $\neg$       | $\neg$   | ᆿ        | $\neg$        | _            | ᅱ        |
|                      | 27       | _             | -  | ┢  |  |  |                     | Н                   |           |   |       |       | 77       | П                  |               |          | +       | +            | +-                                     | П          |          |  | 127      |              |          | ┪            |              | T        | _        | 一             | 十            | ヿ        |
|                      | 28       |               | <del>                                     </del> | $\vdash$   |  |  |                     | H                   |           |   |       |       | 78       | П                  |               |          | 1       | ╁            | 十一                                     |            |          |  | 128      |              |          | 寸            | T            | T        | ヿ        | $\neg$        | $\dashv$     | ヿ        |
|                      | 29       |               | $\vdash$   | _  | $\vdash$   |  |                     | H                   |           |   |       |       | 79       | П                  | T             |          |         | T            | $\top$                                 |            |          |  | 129      |              |          | 7            | $\neg$       | T        | T        | $\neg$        | す            | ヿ        |
|                      | 30       |               |  |  | Г  |  |                     | П                   |           |   |       |       | 80       | П                  | $\neg$        |          |         | $\top$       | $\top$                                 |            |          |  | 130      |              |          | $\top$       |              |          |          |               | $\neg$       | $\neg$   |
|                      | 31       | _             | -  |  | H  |  |                     |                     |           |   |       |       | 81       | П                  |               |          | 1       | 1            | $\top$                                 |            |          |  | 131      |              | $\neg$   | ヿ            | T            | T        | T        | $\neg$        | $\dashv$     | $\neg$   |
|                      | 32       |               | _  | 1  | İ  |  |                     | П                   |           |   |       |       | 82       | П                  | $\neg$        |          | $\top$  | $\top$       | 1                                      | П          |          |  | 132      |              | $\Box$   | 7            | 一            |          |          | $\neg$        | ヿ            | $\neg$   |
|                      | 33       |               |  |  | Γ  |  |                     | П                   |           |   |       |       | 83       |                    |               |          |         | T            | 1                                      |            |          |  | 133      |              |          | T            |              |          |          |               | Т            | $\neg$   |
|                      | 34       |               |  |  |  |  |                     |                     |           |   |       |       | 84       |                    | _1            |          |         | Ī            | Γ                                      |            |          |  | 134      |              |          |              |              |          |          | $\Box$        | 丁            |          |
|                      | 35       |               |  |  |  |  |                     |                     |           |   |       |       | 85       |                    |               |          |         |              |  |            |          |  | 135      |              |          | I            | ╝            |          |          |               | $\Box$       |          |
|                      | 36       |               |  |  |  |  |                     |                     |           |   |       |       | 86       |                    |               |          |         | $oxed{oxed}$ |  |            |          |  | 136      |              |          |              |              |          |          | $\Box$        | $\Box$       |          |
|                      | 37       |               |  |  |  |  |                     |                     |           |   |       |       | 87       |                    |               | $\Box$   |         | $\perp$      |  |            |          |  | 137      |              |          | floor        |              |          |          |               | $oxed{\bot}$ |          |
|                      | 38       |               |  |  |  |  |                     |                     |           |   |       |       | 88       |                    |               | $\perp$  |         | $\perp$      |  | Ш          |          |  | 138      |              |          |              |              |          |          | $\Box$        | $\Box$       |          |
|                      | 39       |               |  |  |  |  |                     |                     |           |   |       |       | 89       |                    |               | $\perp$  |         |              |  | $\Box$     |          | L  | 139      |              |          | $\perp$      |              |          |          | $\perp$       | $\perp$      |          |
|                      | 40       |               |  | <u>L</u>   |  |  |                     | Ш                   |           |   |       |       | 90       | Ш                  | [             | $\perp$  | $\perp$ |              |  | Ш          | ::::     |  | 140      |              |          | _            | _]           |          | ļ        | $\perp$       | $\perp$      |          |
| $oxed{oxed}$         | 41       |               |  |  |  | Ш  | Ш                   | Ш                   | $\Box$    |   |       |       | 91       | $oxed{oxed}$       | [             | $\perp$  | $\perp$ |              |  |            |          |  | 141      |              | _        | $\perp$      |              | _ļ       |          | $\perp$       | $\perp$      | _        |
|                      | 42       |               |  |  | Щ  | L.   | $\Box$              | $\square$           |           |   |       |       | 92       | Щ                  |               | $\perp$  | $\perp$ | $\perp$      | $\perp$                                |            |          | L  | 142      |              | _        | $\downarrow$ |              | $\dashv$ |          | $\dashv$      | $\perp$      | $\Box$   |
|                      | 43       |               |  |  | _  | Щ  |                     | Ш                   |           |   |       |       | 93       | Щ                  | ļ             | $\perp$  | $\perp$ | $\perp$      | $\perp$                                | $\sqcup$   |          | <u> </u>   | 143      | L.,          |          | _            | _            | ļ        | _        | $\dashv$      |              | _        |
|                      | 44       |               | <u> </u>   | <u> </u>   | <u> </u>   | Щ  | $\sqcup \downarrow$ | Ш                   |           |   |       |       | 94       | $\Box$             | _             | 4        | $\perp$ | $\perp$      |  |            |          |  | 144      |              |          | $\downarrow$ |              |          |          | $\dashv$      | _            | _        |
| $\sqcup$             | 45       |               | L.,  |  | <u> </u>   | Ш  | $\square$           | Щ                   |           |   |       |       | 95       | Щ                  |               | 4        | 4       | 4            | $\perp$                                | $\sqcup$   | ::::     | ļ  | 145      |              |          | 4            | $\dashv$     | _        | _        | $\perp$       | $\perp$      | 4        |
|                      | 46       | _             |  | <u> </u>   |  | Ш  | $\sqcup$            | $\sqcup$            | $\square$ |   |       |       | 96       | Щ                  | _             | _ _      | _ _     | 4_           | $\perp$                                | $\sqcup$   |          | <u> </u>   | 146      | ļ            | $\dashv$ | 4            | $\downarrow$ |          | _        | $\dashv$      | $\dashv$     | ᅴ        |
|                      | 47       |               | L.   | <u> </u>   | <u> </u>   | _  | $\square$           | $\sqcup$            |           |   |       |       | 97       | $\sqcup$           |               |          | _       | _            | $\perp$                                |            |          |  | 147      |              | -        | 4            | 4            |          | _        | $\dashv$      | $\dashv$     | _        |
|                      | 48       |               | <u> </u>   | <u> </u>   | <u> </u>   | Щ  | $\sqcup$            | Н                   | _         |   |       |       | 98       |                    | 4             | _        | $\perp$ | 4_           | 4                                      | $\vdash$   |          |  | 148      |              |          | _            | 4            |          |          | $\dashv$      | 4            | ᆜ        |
| <del>  </del>        | 49       |               | <u> </u>   | <u> </u>   | $\vdash$   |  | $\vdash$            | $\vdash \downarrow$ |           |   |       |       | 99       |                    |               | -        | +       | +-           | +-                                     |            |          | <u> </u>   | 149      |              | -        | 4            | 4            |          | _        | _             | 4            | 4        |
|                      | 50       |               |  | L  | Ш  | LI   |                     | Ll                  |           |   | ::::: |       | 100      | L I                |               |          | $\perp$ |              | ــــــــــــــــــــــــــــــــــــــ | <b>L</b> Ь | ::::     | Щ.   | 150      |              | L_       |              |              | 1        | [        |               | ᆚ            | ╝        |